

FIG. 2

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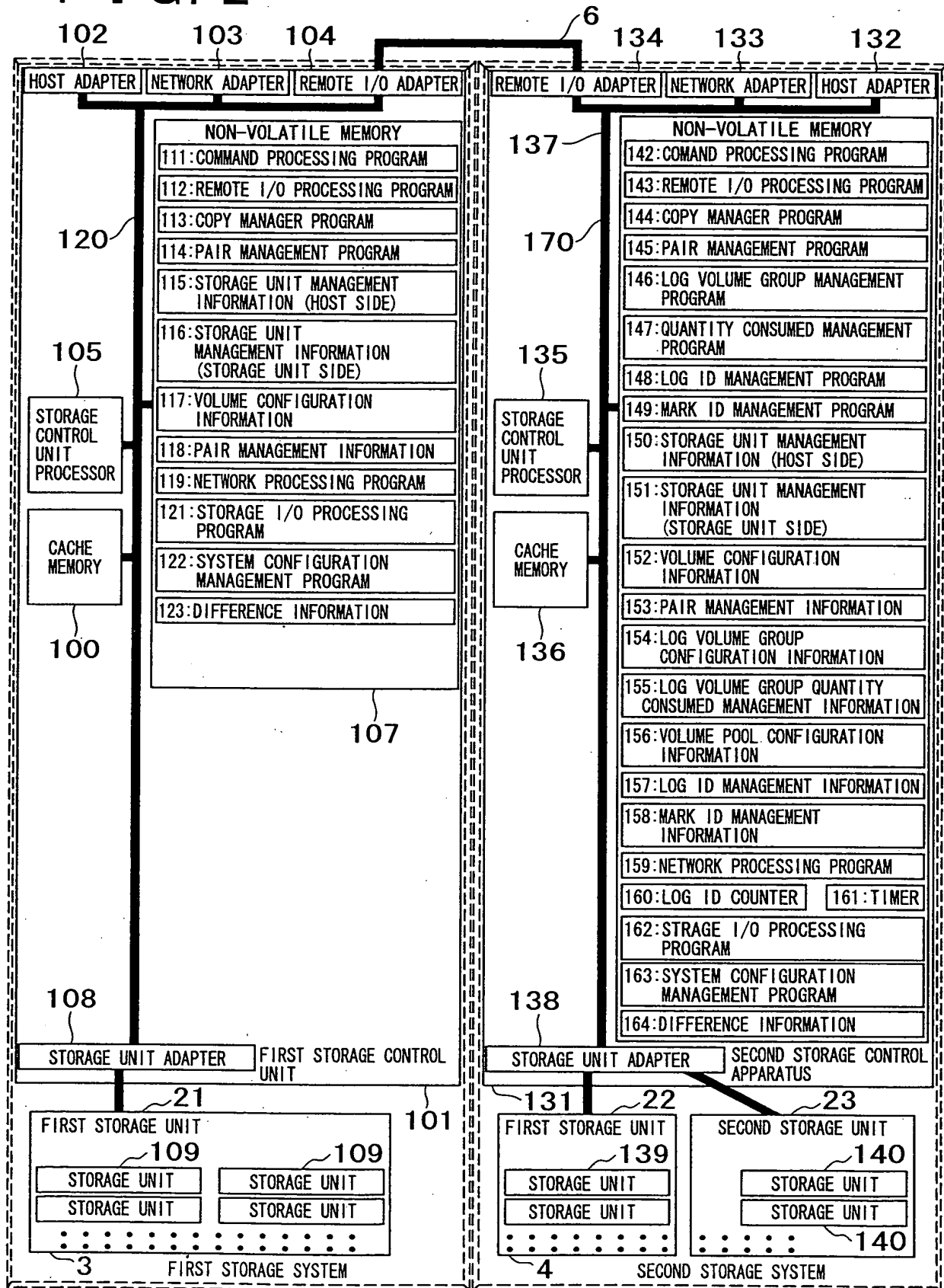


FIG. 3

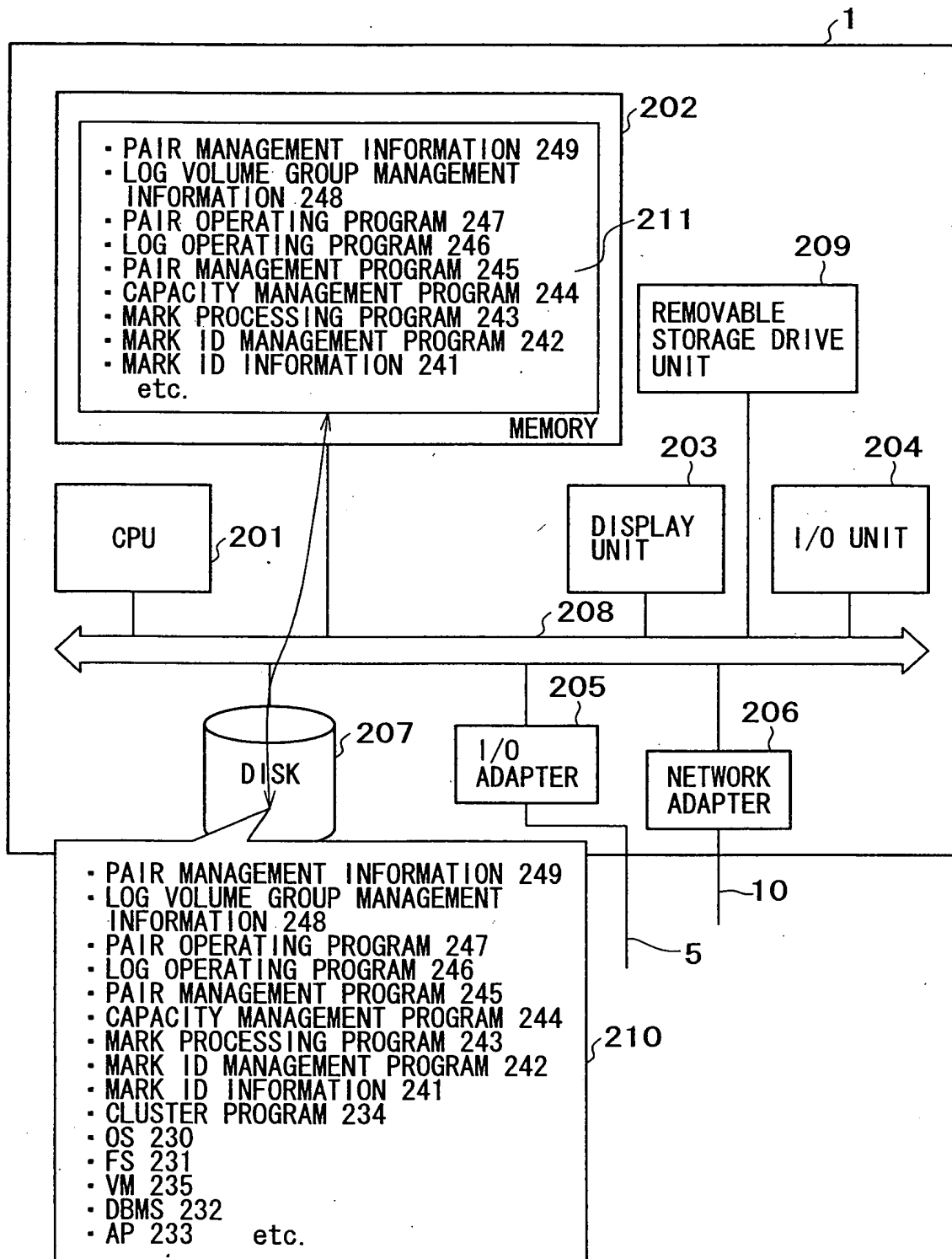


FIG. 4

STORAGE MANAGEMENT INFORMATION 115

IDENTIFIER OF HOST COMPUTER : XXXXXXXX

ADDRESS OF STORAGE UNIT WHICH HOST COMPUTER RECOGNIZES 301		LOGICAL ADDRESS WITHIN STORAGE SYSTEM 302	
IDENTIFIER OF STORAGE UNIT 303	ADDRESS WITHIN STORAGE UNIT 304	LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 305	ADDRESS WITHIN LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 306
aaaaaaaaaaaaaa	000000000000	00	000000000000
aaaaaaaaaaaaaab	000000000000	0B	000000000000
aaaaaaaaaaaaaab	100000000000	0C	000000000000
.....

FIG. 5

STORAGE MANAGEMENT INFORMATION 116

LOGICAL ADDRESS WITHIN STORAGE SYSTEM 401		ADDRESS CONCERNING RAID GROUP 402		ADDRESS CONCERNING DISK 403	
LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 404	ADDRESS WITHIN LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 405	RAID GROUP NUMBER 406	VIRTUAL ADDRESS WITHIN RAID GROUP 407	DISK NUMBER 408	DISK ADDRESS 409
00	000000000000	00	000000000000	00	000000000000
00	000002000000	00	000002000000	01	000002000000
.....

FIG. 6

VOLUME CONFIGURATION INFORMATION 117, 152

LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 501	Host Type 502	PASS DEFINITION 503	STATE 504	RESERVE INFORMATION 505	Pair NUMBER 506	LOG VOLUME GROUP NUMBER 507	CAPACITY 508

FIG. 7

Pair MANAGEMENT INFORMATION 118, 153

Pair NUMBER 601	LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 3 (ORIGINAL) 602	LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 4 (DUPLICATE) 603	STATE 604

FIG. 8

Log Volume Group CONFIGURATION INFORMATION 154

FLAG ~701			
Log Volume Group NUMBER : xxx ~702			
LOGICAL STORAGE NUMBER : yy ~703			
SUM TOTAL OF LOGICAL STORAGE CAPACITY WITHIN Log Volume Group : zzz ~704			
LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM ~705	Host Type ~706	STATE ~707	CAPACITY ~708
-----	-----	-----	-----
NUMBER OF LOGICAL STORAGE IDENTIFIERS OF VOLUME FOR LOG TO BE USED IN Log Volume Group ~709			
SUM OF CAPACITIES OF LOGICAL STORAGES OF VOLUME FOR LOG TO BE USED IN Log Volume Group ~710			
LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM ~711	Host Type ~712	STATE ~713	CAPACITY ~714
-----	-----	-----	-----

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FIG. 9

Volume Pool CONFIGURATION INFORMATION

LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM 801	Host Type 802	STATE 803	RESERVE INFORMATION 804	CAPACITY 805

FIG. 10

Log Volume Group QUANTITY CONSUMED MANAGEMENT INFORMATION 155

Log Volume Group NUMBER ~ 901				
FULL FREE CAPACITY WITHIN Log Volume Group ~ 902				
LOGICAL STORAGE NUMBER WITHIN STORAGE SYSTEM ~ 903	CAPACITY ~ 904	Write I/O AREA CAPACITY ~ 905	REMAINING CAPACITY ~ 906	RATIO OF REMAINING CAPACITY ~ 907

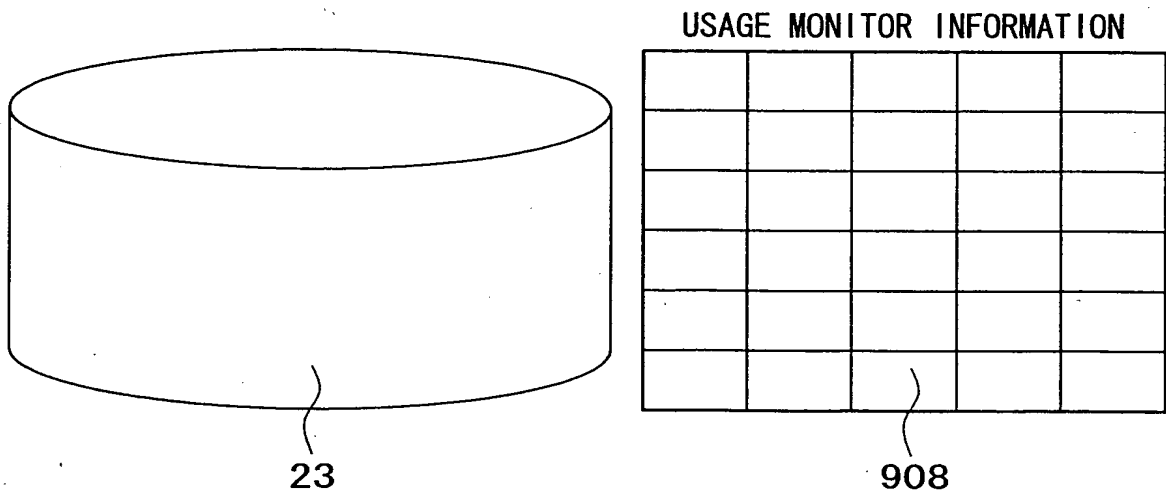


FIG. 11

LOG ID MANAGEMENT INFORMATION 157

OLDEST LOG Data ID	~1001
TIME PERIOD OF OLDEST LOG Data	~1002
ADDRESS OF OLDEST LOG Data	~1003
MOST RECENT LOG Data ID	~1011
TIME PERIOD OF MOST RECENT LOG Data	~1012
ADDRESS OF MOST RECENT LOG Data	~1013

FIG. 12

MARK ID MANAGEMENT INFORMATION 158

OLDEST MARK ID	~1101
TIME PERIOD OF OLDEST MARK	~1102
ADDRESS OF OLDEST MARK	~1103
MOST RECENT MARK ID	~1111
TIME PERIOD OF MOST RECENT MARK	~1112
ADDRESS OF MOST RECENT MARK	~1113

FIG. 13

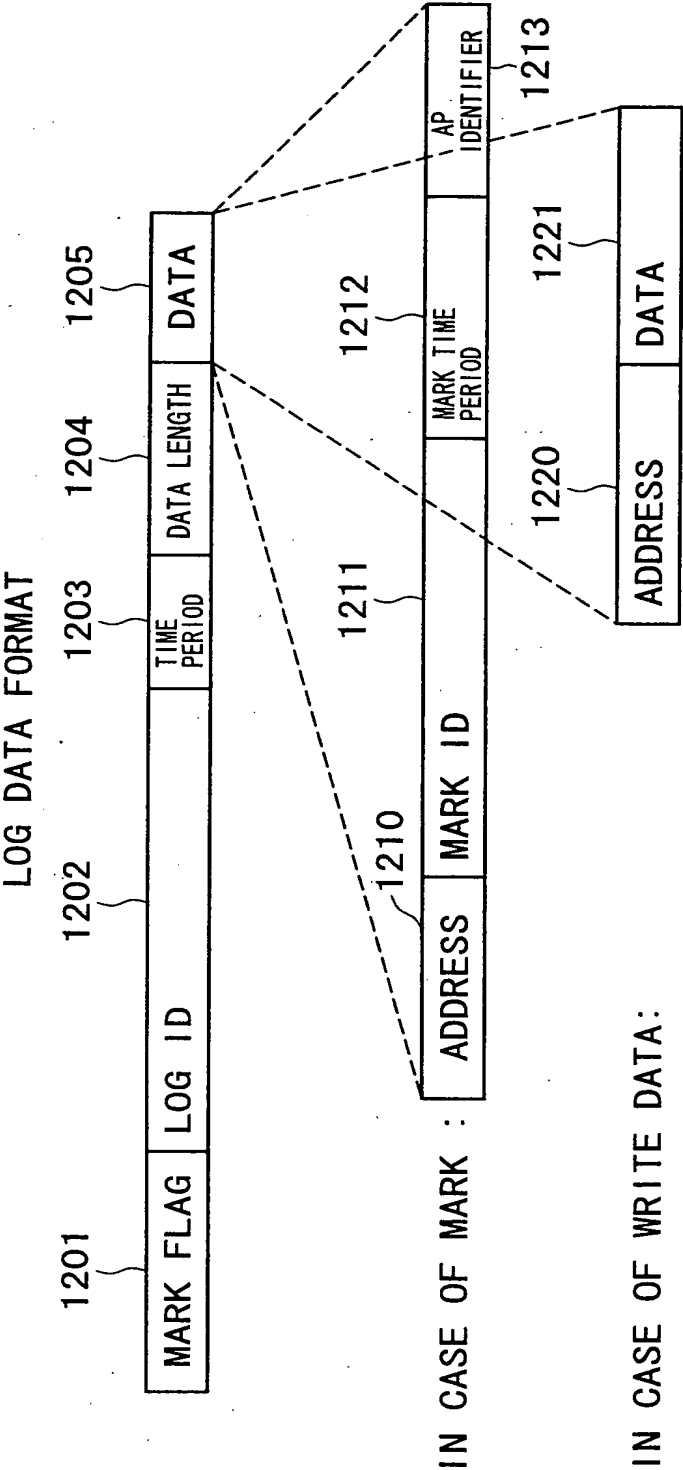
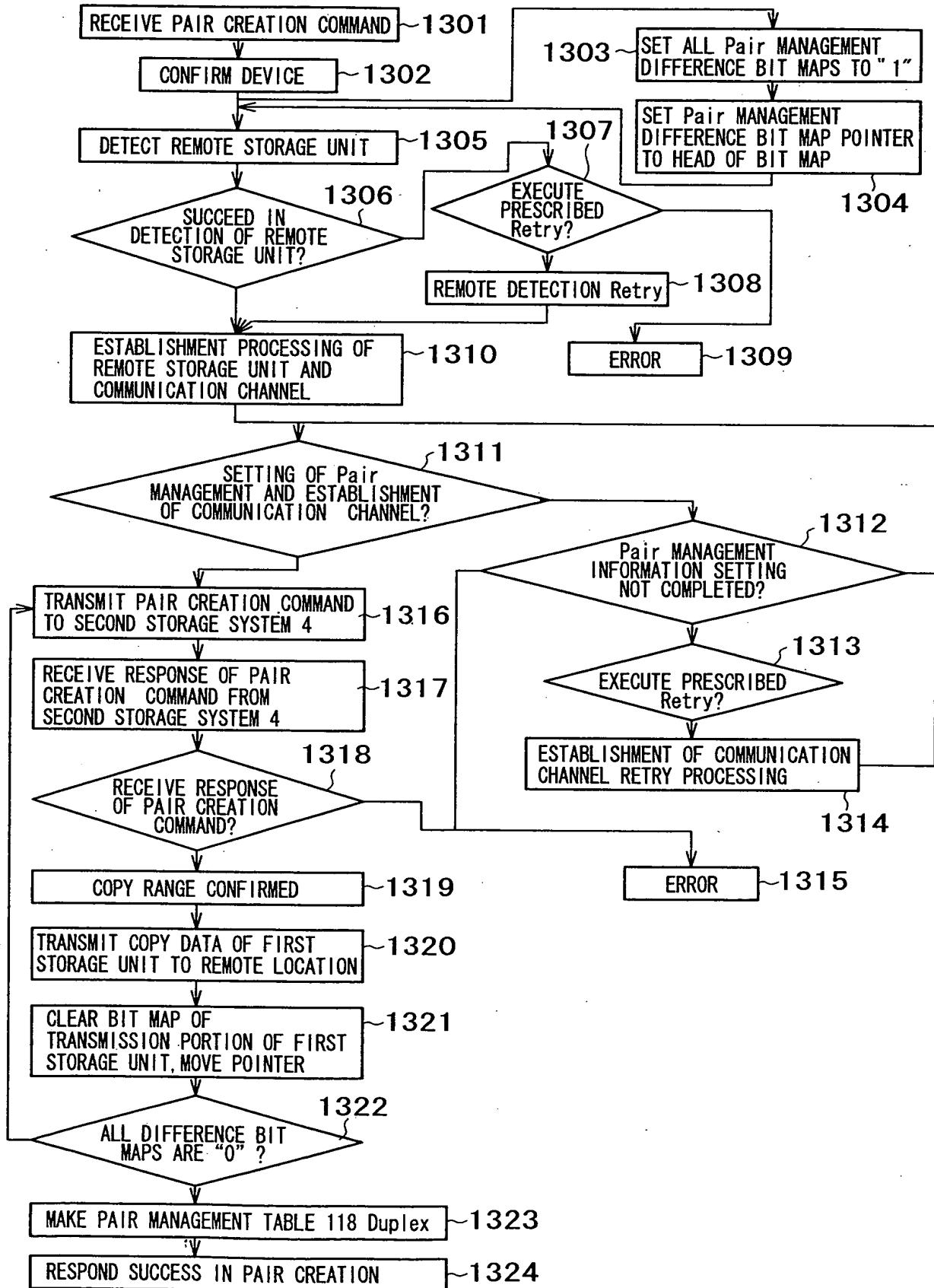


FIG. 14

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FIG. 15

COMMAND PROCESSING (DURING Pair CREATION)

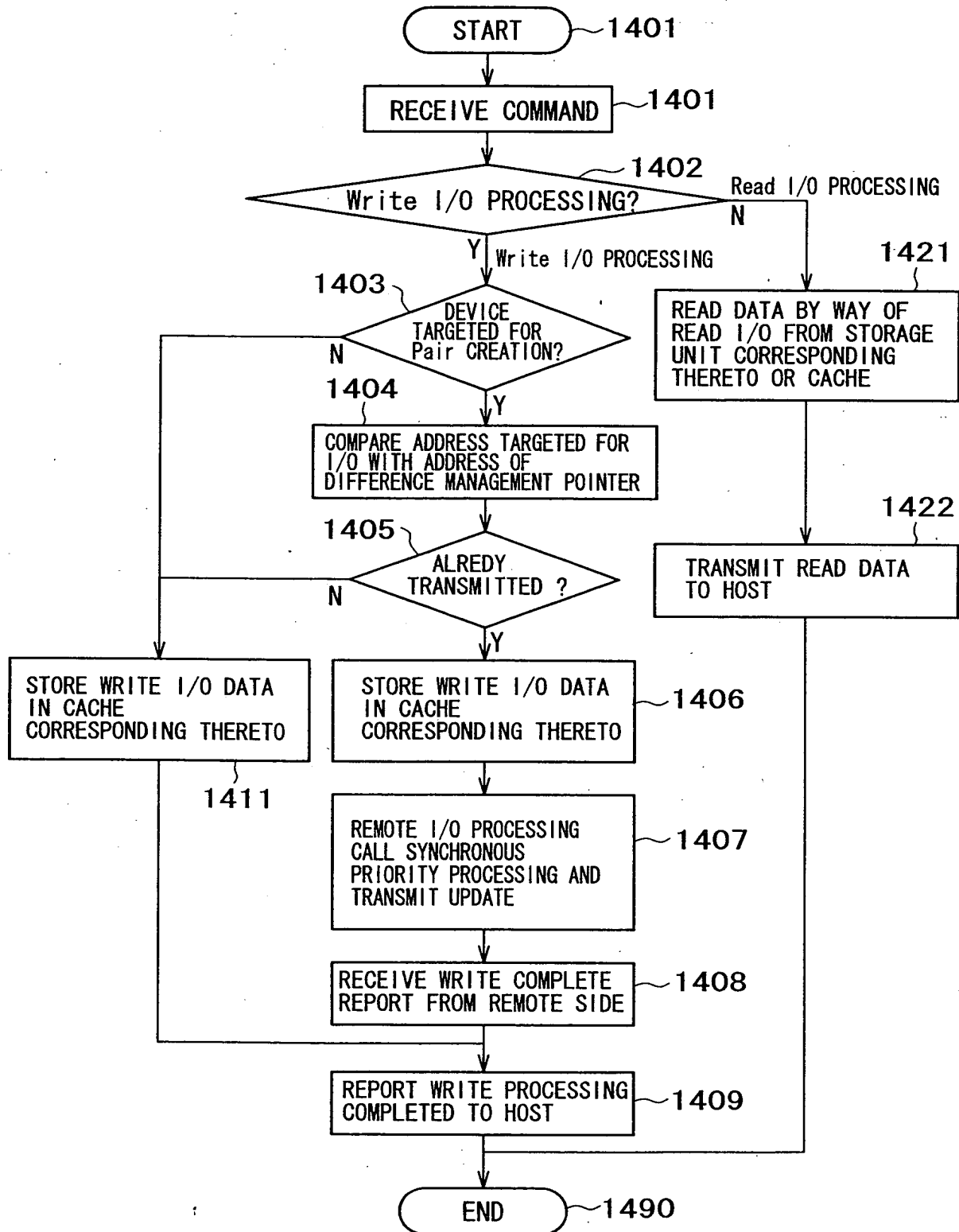


FIG. 16

Log ACQUISITION COMMENCEMENT PROCESSING (MASTER SIDE)

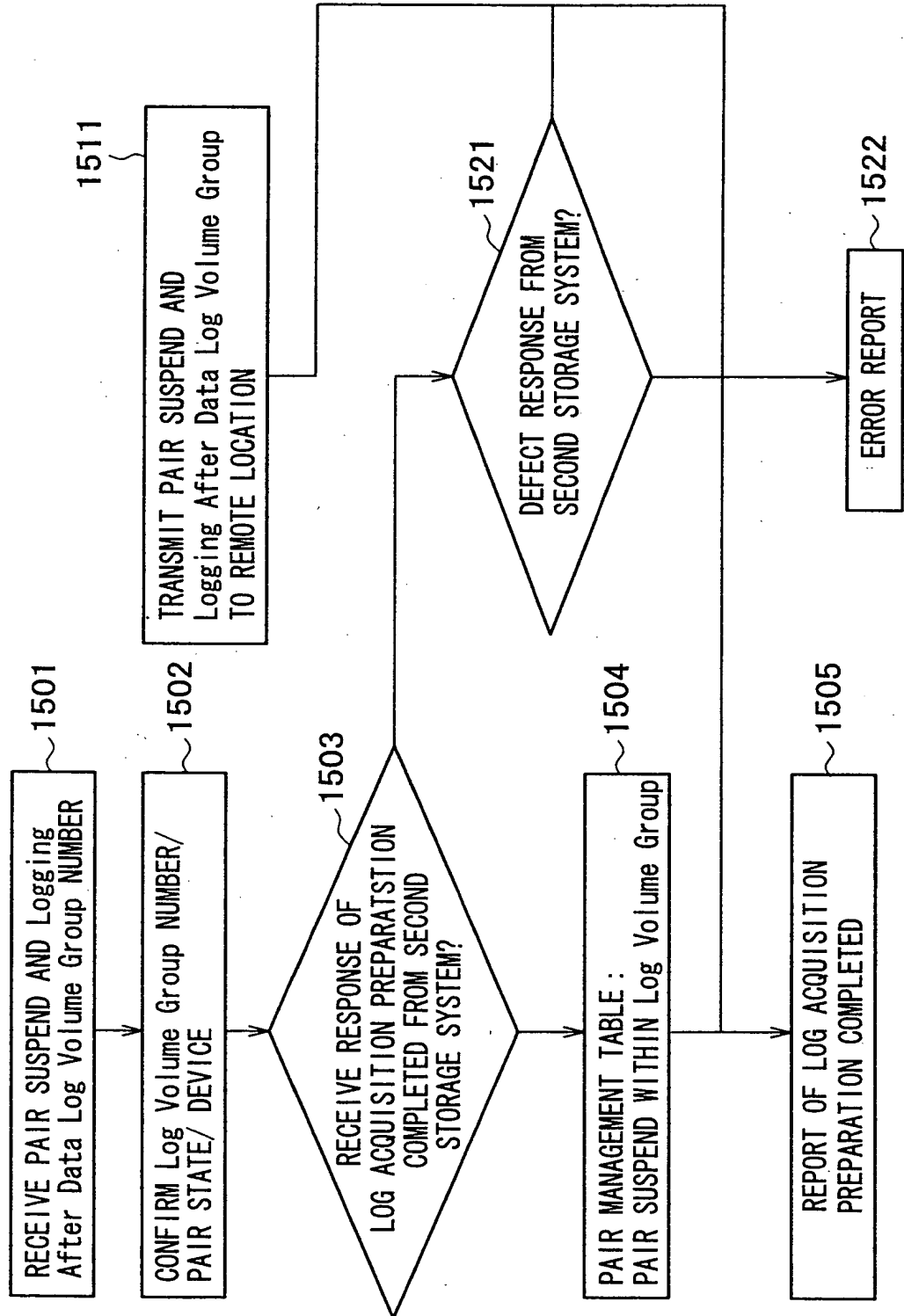


FIG. 17

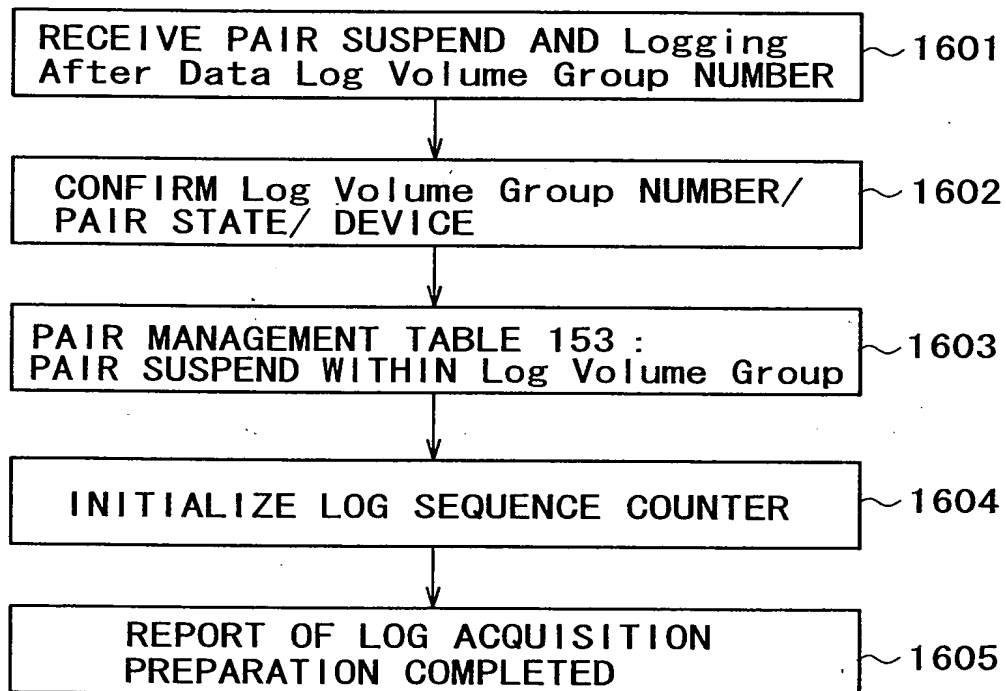
Log ACQUISITION COMMENCEMENT
PROCESSING (MASTER SIDE)

FIG. 18A

MARK COMMAND PROCESSING (HOST SIDE)

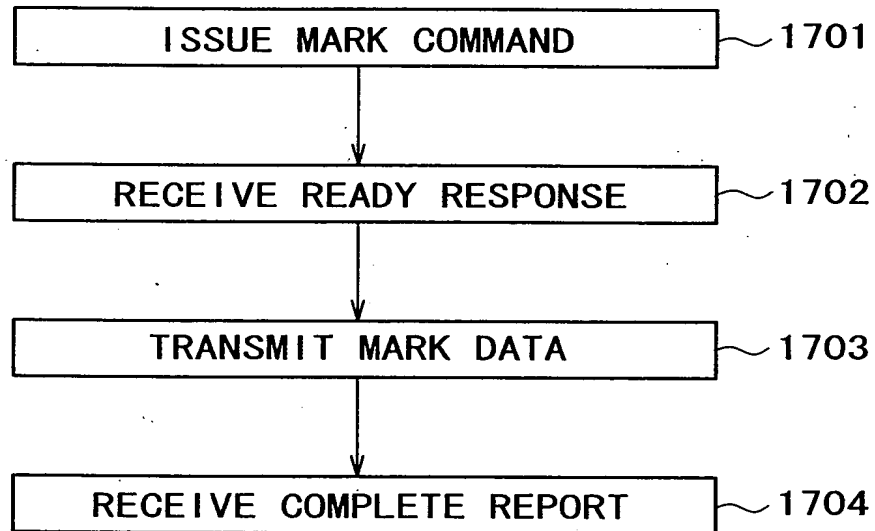


FIG. 18B

MARK COMMAND PROCESSING (MASTER SIDE)

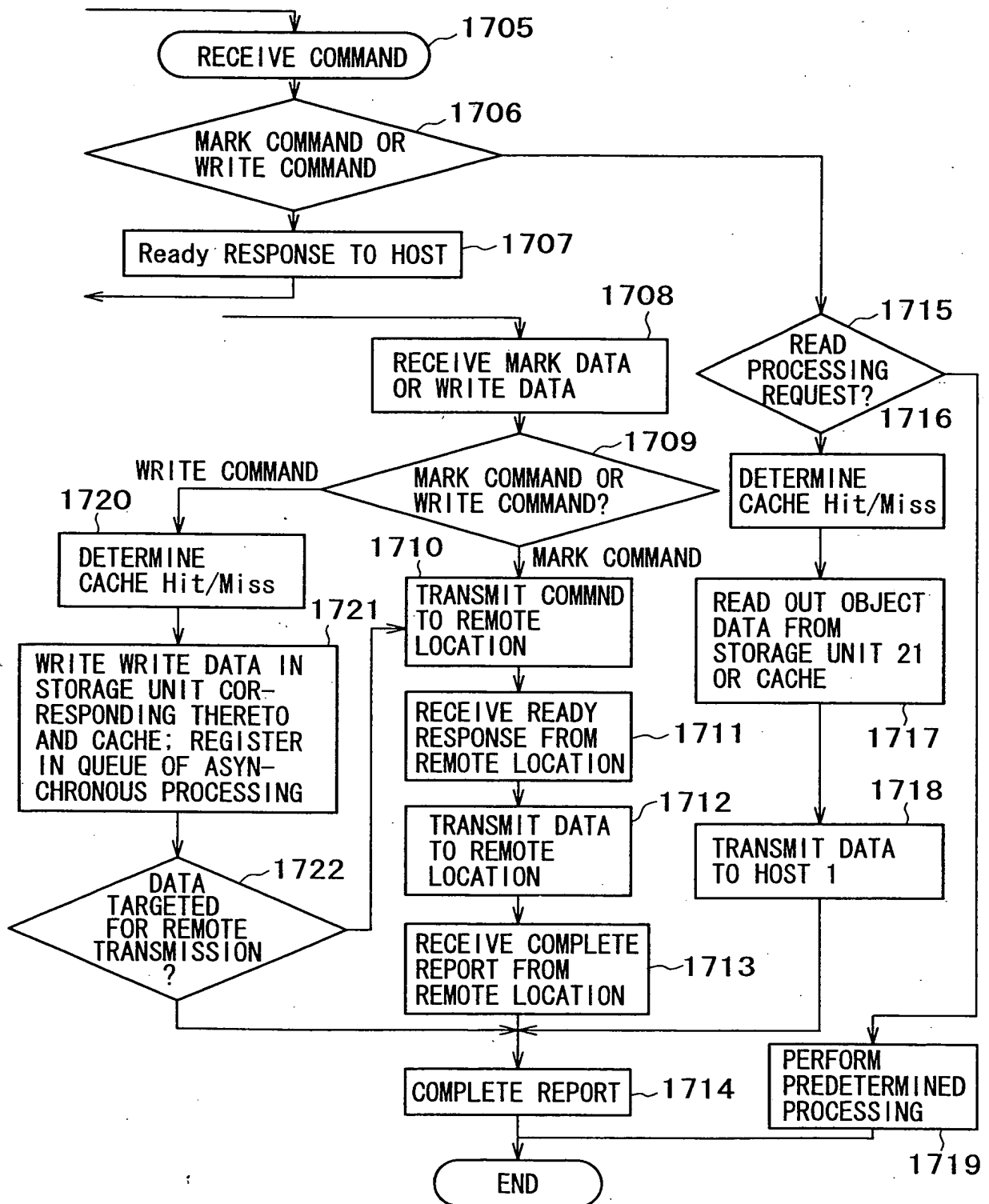


FIG. 19

COMAND PROCESSING (REMOTE SIDE)

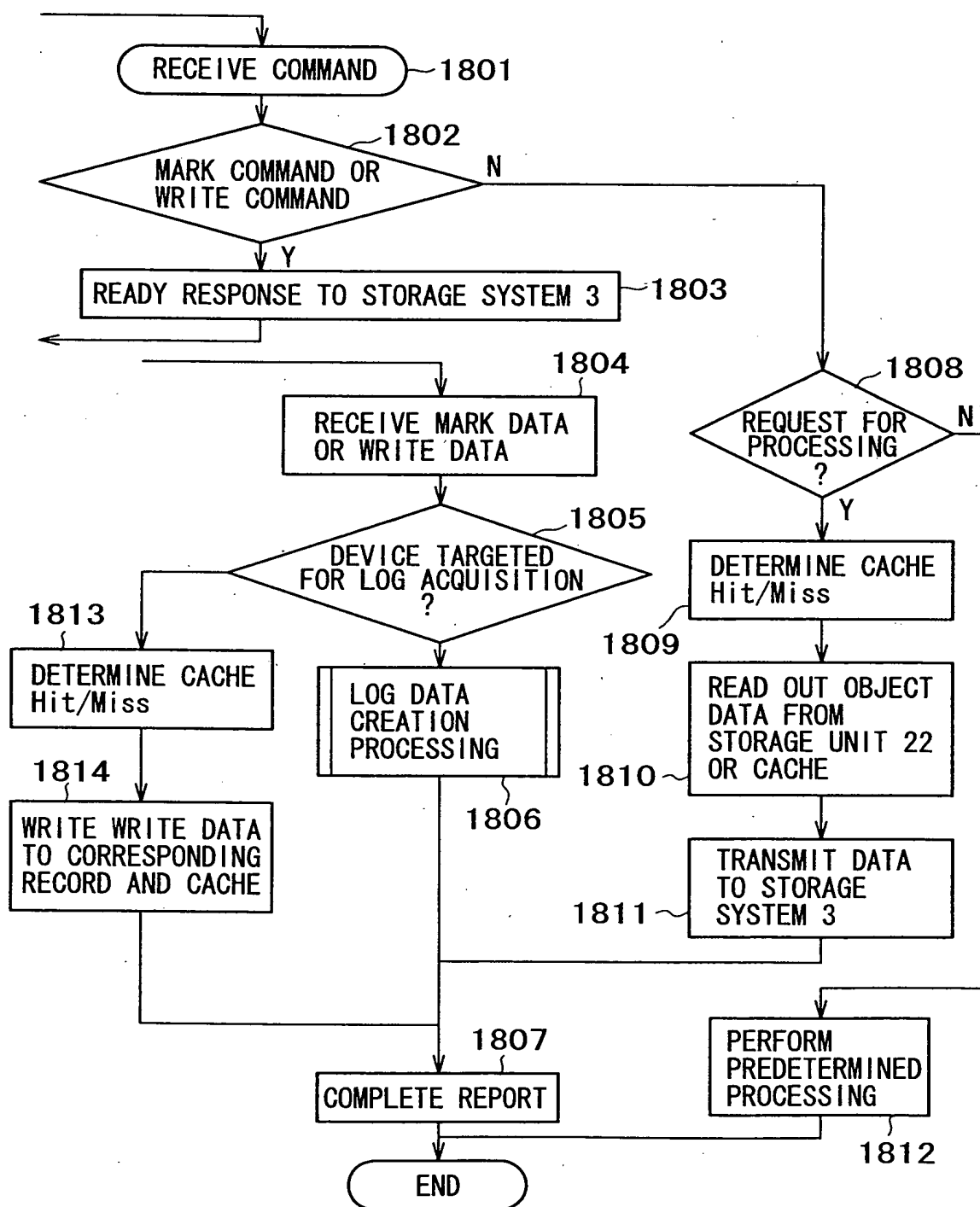


FIG. 20

LOG DATA CREATION PROCESSING (REMOTE SIDE)

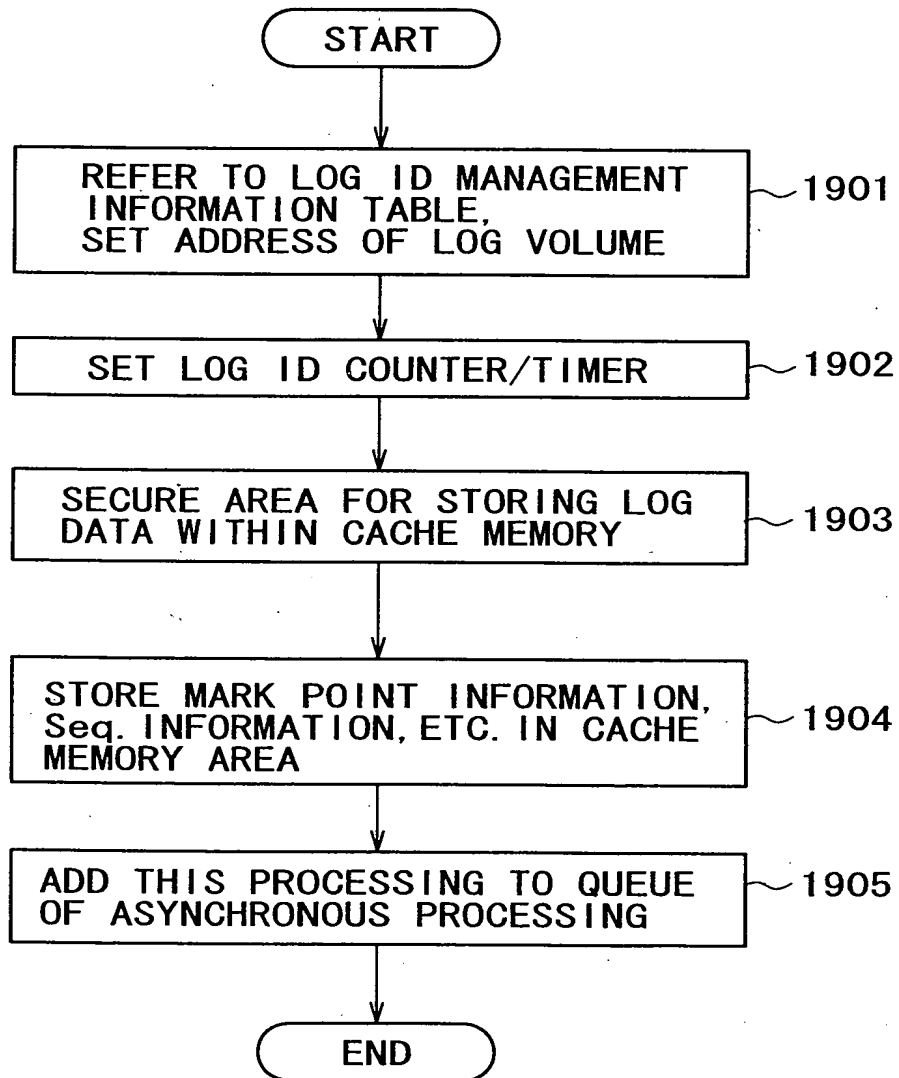


FIG. 21

EXCESSIVE Volume CAPACITY PROCESSING

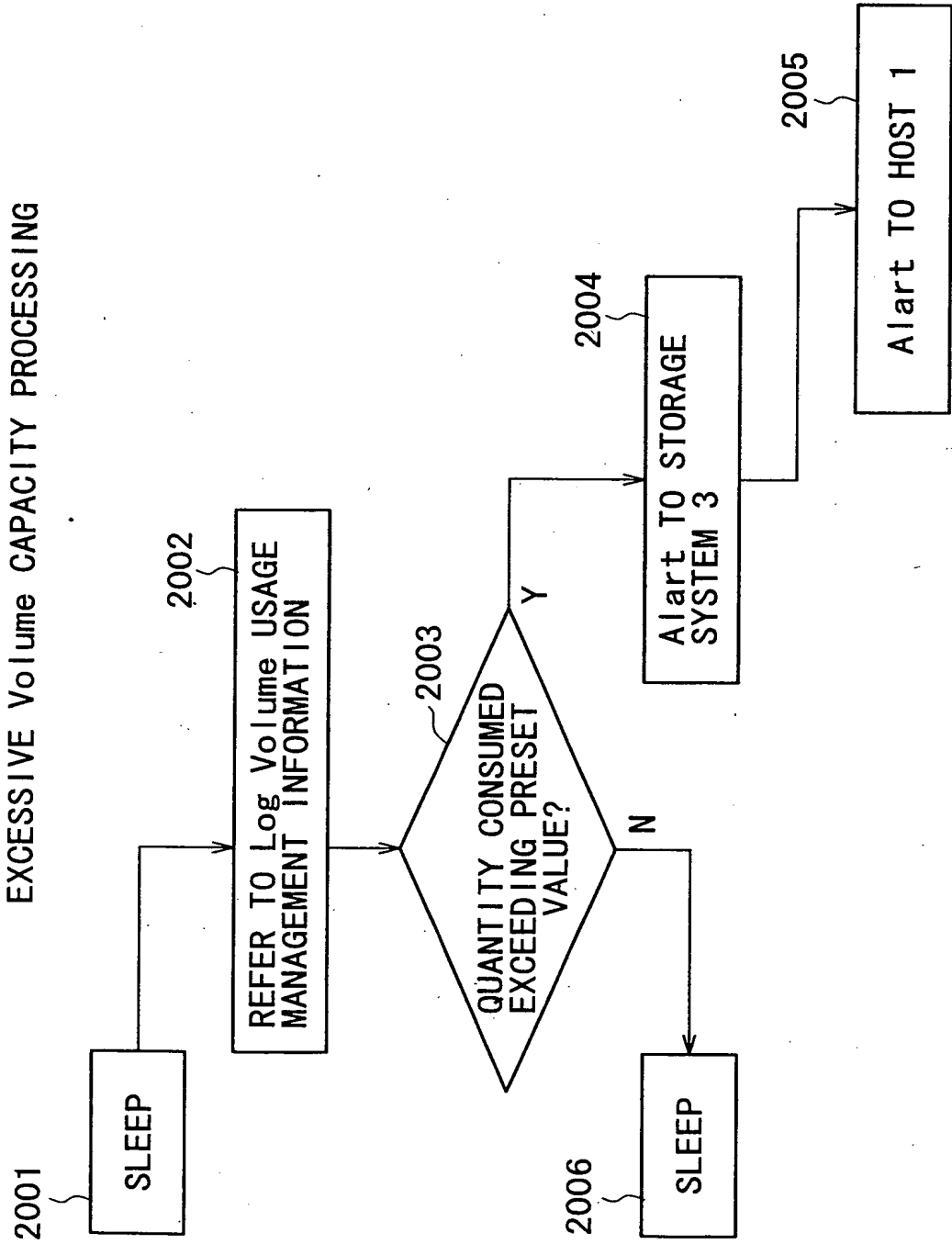


FIG. 22

Take Over PROCESSING

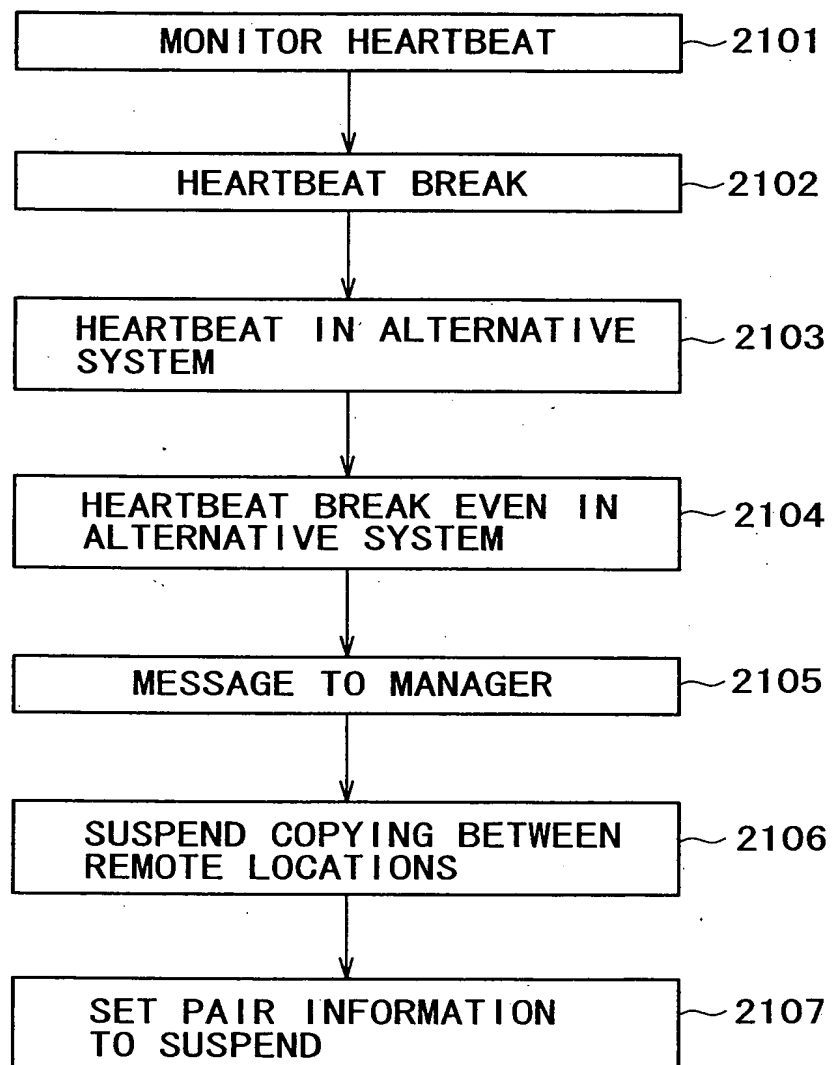


FIG. 23

Recovery PROCESSING

